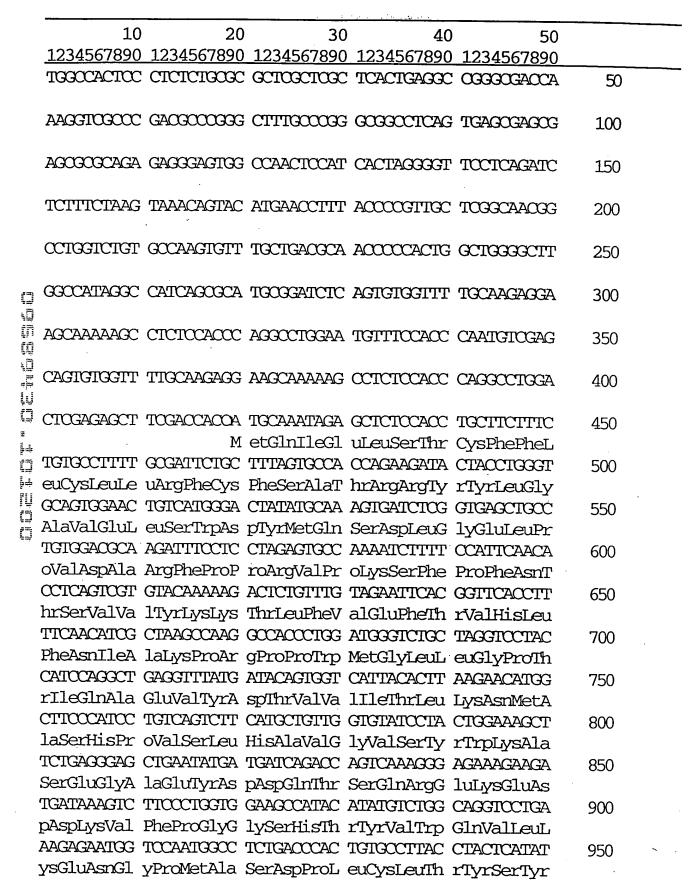


FIGURE 1





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	10	20	30	40	50		
		1234567890					
		TGGACCTGGT				1000	
	LeuSerHisV	alAspLeuVa	llysAspLeu	AsnSerGlyL	euIleGlyAl		
	CCTACTAGTA	TGTAGAGAAG	GGAGICIGGC	CAAGGAAAAG	ACACAGACCT	1050	
	aLeuLeuVal	CysArgGluG	lySerLeuAl	aLysGluLys	ThrGlnThrL		
	TGCACAAATT	TATACTACTT	TITICCIGIAT	TIGATGAAGG	GAAAAGTIGG	1100	
	euHisLysPh	eIleLeuLeu	PheAlaValP	heAspGluGl	yLysSerTrp		
	CACTCAGAAA	CAAAGAACTC	CITGATGCAG	GATAGGGATG	CIGCATCIGC	1150	
	HisSerGluT	hrLysAsnSe	rLeuMetGln	AspArgAspA	laAlaSerAl		
	TOGGGCCTGG	CCTAAAATGC	ACACAGTCAA	TGGITATGIA	AACAGGTCTC	1200	
	aArgAlaTrp	ProLysMetH	isThrValAs	nGlyTyrVal	AsnArgSerL		
472	TGCCAGGICT	GATTGGATGC	CACAGGAAAT	CAGICTATIG	GCATGTGATT	1250	
	euProGlyLe	uIleGlyCys	HisArgLysS	erValTyrTr	pHisValIle		
m	GGAATGGGCA	CCACTCCTGA	AGIGCACICA	ATATTCCTCG	AAGGTCACAC	1300	
I.	GlyMetGlyT	hrThrProGl	uValHisSer	IlePheLeuG	luGlyHisTh		
	ATTICTIGIG	AGGAACCATC	GCCAGGCGTC	CTTGGAAATC	TCGCCAATAA	1350	
e# LU	rPheL <i>e</i> uVal	ArgAsnHisA	rgGlnAlaSe	rLeuGluIle	SerProIleT		
Ū	CITICCITAC	TGCTCAAACA	CICTIGATGG	ACCTTGGACA	GITICIACIG	1400	
3	hrPheLeuTh	rAlaGlnThr	LeuLeuMetA	spleuGlyGl	nPheLeuLeu		
	TTTTGTCATA	TCTCTTCCCA	CCAACATGAT	GGCATGGAAG	CITATGICAA	1450	
i di	PheCysHisI	leSerSerHi	sGlnHisAsp	${\tt GlyMetGluA}$	laTyrValLy		
FL.	AGTAGACAGC	TGTCCAGAGG	AACCCCAACT	ACGAATGAAA	AATAATGAAG	1500	
	sValAspSer	CysProGluG	luProGlnLe	uArgMetLys	AsnAsnGluG		
i-	AAGCGGAAGA	CTATGATGAT	GATCTTACTG	ATTCTGAAAT	GGATGTGGTC	1550	
	luAlaGluAs	pTyrAspAsp	AspLeuThrA	spSerGluMe	tAspValVal		
	AGGITIGATG	ATGACAACTC	TCCTTCCTTT	ATCCAAATTC	GCTCAGTTGC	1600	
	ArgPheAspA	spAspAsnSe	rProSerPhe	IleGlnIleA	rgSerValAl	- ,	, ·
		CCTAAAACTT				1650	
	aLysLysHis	ProLysThrT	rpValHisTy	rIleAlaAla	GluGluGluA		
	ACTOGGACTA	TGCTCCCTTA	GICCICGCCC	CCGATGACAG	AAGTTATTAAA	1700	
	spTrpAspTy	rAlaProLeu	ValleuAlaP	roAspAspAr	gSerTyrLys		
	AGICAATATT	TGAACAATGG	CCCTCAGCGG	ATTGGTAGGA	AGTACAAAAA	1750	
	SerGlnTyrL	euAsnAsnGl	yProGlnArg	IleGlyArgL	ysTyrLysLy		
	AGTCCGATTT	ATGGCATACA	CAGATGAAAC	CTTTAAGACT	CGIGAAGCTA	1800	
	sValArgPhe	MetAlaTyrT	hrAspGluTh	rPheLysThr	ArgGluAlaI		
	TTCAGCATGA	ATCAGGAATC	TIGGGACCIT	TACTITATGG	GGAAGITIGGA	1850	
	leGlnHisGl	uSerGlyIle	LeuGlyProL	euLeuTyrGl	yGluValGly		
					CATATAACAT	1900	
	AspThrLeuL	euIleIlePh	eLysAsnGln	AlaSerArgP	roTyrAsnIl		



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						ArgArgLeuP		
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		TTCAAATATA	AATGGACAGT	GACIGTAGAA	GATGGGCCAA	CTAAATCAGA	2050	
					AspGlyProT	-		
		TCCTCCGTGC	CIGACCCGCT	ATTACICTAG	TITOGITAAT	ATGGAGAGAG	2100	
		pProArgCys	LeuThrArgT	yrTyrSerSe	rPheValAsn	MetGluArgA		
		ATCTAGCTTC	AGGACTCATT	GGCCCICICC	TCATCTGCTA	CAAAGAATCT	2150	
		spLeuAlaSe	${\tt rGlyLeuIle}$	$\hbox{GlyProLeuL}$	eulleCysTy	rLysGluSer		
	===	GIAGAICAAA	GAGGAAACCA	GATAATGICA	GACAAGAGGA	ATGICATCCT	2200	
H		ValAspGlnA	rgGlyAsnGl	nIleMetSer	AspLysArgA	snVallleLe		
7		GITTICIGIA	${\bf TTTGATGAGA}$	ACCGAAGCTG	GIACCICACA	GAGAATATAC	2250	
Į,	j	uPheSerVal	PheAspGluA	snArgSerTr	pTyrLeuThr	GluAsnIleG		
i.		AACGCTTTCT	CCCCAATCCA	GCTGGAGTGC	AGCTTGAGGA	TCCAGAGTTC	2300	
=	j= . i	lnArgPheLe	uProAsnPro	AlaGlyValG	lnLeuGluAs	pProGluPhe		
p _{turb}	*** ***	CAAGCCTCCA	ACATCATGCA	CAGCATCAAT	GGCTATGTTT	TIGATAGITT	2350	
Œ		GlnAlaSerA	snIleMetHi	sSerIleAsn	GlyTyrValP	heAspSerLe		
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Ð	U	TTGGAGCACA	GACTGACTTC	CITICIGICT	TCTTCTCTGG	ATATACCITC	2450	
ami ama	=	leGlyAlaGl	nThrAspPhe	LeuSerValP	hePheSerGl	yTyrThrPhe		
1	Į	AAACACAAAA	TGGTCTATGA	AGACACACTC	ACCCTATTCC	CATTCTCAGG	2500	
		LysHisLysM	etValTyrGl	uAspThrLeu	ThrLeuPheP	roPheSerGl		
		AGAAACIGIC	TICATGICGA	TGGAAAACCC	AGGICTATGG	ATTCTGGGGT	2550	
		yGluThrVal	PheMetSerM	etGluAsnPr	oGlyLeuTrp	IleLeuGlyC		
		GCCACAACTC	AGACTTTCGG	AACAGAGGCA	TGACCGCCTT	ACIGAAGGIT	2600	
		ysHisAsnSe	rAspPheArg	AsnArgGlyM	etThrAlaLe	uLeuLysVal		
		TCTAGTTGTG	ACAAGAACAC	TGGIGATTAT	TACGAGGACA	GTTATGAAGA	2650	
		SerSerCysA	spLysAsnTh	rGlyAspTyr	TyrGluAspS	erTyrGluAs		
		TATTTCAGCA	TACTIGCIGA	GTAAAAACAA	TGCCATTGAA	CCAAGAAGCT	2700	
		pIleSerAla	TyrLeuLeuS	erLysAsnAs	nAlaIleGlu	ProArgSerP		
		TCTCCCAGAA	TICAAGACAC	CCTAGCACTA	GGCAAAAGCA	ATTTAATGCC	2750	
		heSerGlnAs	nSerArgHis	ProSerThrA	rgGlnLysGl	nPheAsnAla		
		ACCCCACCAG	TCTTGAAACG	CCATCAACGG	GAAATAACIC	GTACTACTCT	2800	
		ThrProProV	alleuLysAr	gHisGlnArg	GluIleThrA	rgThrThrLe		
		TCAGTCAGAT	CAAGAGGAAA	TIGACTATGA	TGATACCATA	TCAGITGAAA	2850	
		uGlnSerAsp	GlnGluGluI	leAspTyrAs	pAspThrIle	SerValGluM		

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GCICIGGAT TATGGGATGA GIAGCICCCC ACATGTICTA AGAAACAGGG GLEUTYPASP TYYGLYMELS EYSEYSEYPY OHISVALLOW GLEUTYPASP TYYGLYMELS EYSEYSEYPY OHISVALLOW 3000
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TCIGAIGIIG ACCIGGAAAA AGAIGIGCAC TCAGGCCIGA TIGGACCCCI SerAspValA spleuGluly sAspValHis SerGlyLeuI leGlyProle uLeuValCys Highway
TCTGGTCTGC CACACTAACA CACTGAACCC TGCTCATGGG AGACAAGTGA 3450 CAGTACAGA ATTUCCATGG AGACAAGTGA 3450
ULEUVALCYS HISTHYASAT HYLEUASAPY OALAHISGIY AYGGINVALT CAGTACAGGA ATTTGCTCTG TTTTTCACCA TCTTTGATCA CAGTACAGTA
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eclameter GATCCCACIT TTAAACACAA TTTAAACACAA TTTAAACACAA TTTAAACACAA TTTAAACACAA TTTAAACACAA TTTAAACACAA TTTAAACACAA TTTAAACACAAA TTTAAACACAAA TTTAAACACAAA TTTAAACACAAA TTTAAACACAAA TTTAAACACAAA TTTAAACACAAA TTTAAACACAAAA TTTAAACACAAAA TTTAAACACAAAA TTTAAACACAAAA TTTAAACACAAAAAAAA
CCAGATGGAA GATCCCACTT TTAAAGAGAA TTATCGCTTC CATGCAATCA eGlnMetGlu AspProThrP helysGluAs nTyrArgPhe HisAlaIleA ATGCTACAT AATGGATACA CTACCTGCCT TAGTATTCC TTAGTATTCCCTTC CATGCAATCA snGlyTyrTl eMotArga
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				TTGGCGAGCA	3850
				leGlyGluHi	
				AATAAGIGIC	3900
			-	AsnLysCysG	
				TCAGATTACA	3950
				eGlnIleThr	
				GACTICATTA	4000
			_	rgLeuHisTy	
				TCTTGGATCA	4050
-				SerTrpIleL	
				GACCCAGGGT	4100
				sThrGlnGly	
				TCATCATGTA	4150
				leIleMetTy	
				TCCACTGGAA	4200
		_		SerThrGlyT	
				AAAACACAAT	4250
				eLysHisAsn	
ATTTTTAACC	CTCCAATTAT	TGCTCGATAC	ATCCGTTTGC	ACCCAACTCA	4300
IlePheAsnP	roProIleIl	eAlaArgTyr	IleArgLeuH	isProThrHi	
			GIIGAIGGC		4350
sTyrSerIle	ArgSerThrL	euArgMetGl	uLeuMetGly	CysAspLeuA	
			GTAAAGCAAT		4400
snSerCysSe	rMetProLeu	GlyMetGluS	erLysAlaIl	eSerAspAla	
CAGATTACTG	CITCATCCTA	CTTTACCAAT	ATGTTTGCCA	CCTGGTCTCC	4450
GlnIleThrA	laSerSerTy	rPheThrAsn	MetPheAlaT	hrTrpSerPr	
TICAAAAGCT	CGACTICACC	TCCAAGGGAG	GAGTAATGCC	TGGAGACCTC	4500
oSerLysAla .	ArgLeuHisL	euGlnGlyAr	gSerAsnAla	TrpArgProG	
AGGIGAATAA	TCCAAAAGAG	TGGCTGCAAG	TGGACTTCCA	GAAGACAATG	4550
lnValAsnAs :	nProLysGlu	TrpLeuGlnV	alAspPheGl	nLysThrMet	
AAAGTCACAG	GAGTAACTAC	TCAGGGAGTA	AAATCTCTGC	TTACCAGCAT	4600
LysValThrG	lyValThrTh	rGlnGlyVal	LysSerLeuL	euThrSerMe	
GTATGTGAAG	GAGITOCTCA	TCTCCAGCAG	TCAAGATGGC	CATCAGIGGA	4650
tTyrValLys (GluPheLeuI	leSerSerSe	rGlnAspGly	HisGlnTrpT	
CICICITITIT '	TCAGAATGGC .	AAAGTAAAGG	TTTTTCAGGG	AAATCAAGAC	4700
hrLeuPhePh	_	_			
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SerPheThrP	roValValAs :	nSerLeuAsp	ProProLeuL	euThrArgTy	



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		CACCCCCAGA				4800
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		yCysGluAla			GCGAGTICTT	4850
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	COTTICTICG	GATCCAGATC	TAGGAACCCC	TAGIGATGGA	GITGGCCACT	4950
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n	GAGAGGGAGT	GGCCAACCCC	aaaaaaaaa	CCCCTGCAGC	CCAGCTGCAT	5100
	TAATGAATCG	GCCAACGCGC	GGGGAGAGGC	GGTTTGCGTA	TIGGGCGCIC	5150
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L	TICCGCTICC	TOGCICACIG	ACICGCIGCG	CICGGICGIT	CGGCTGCGGC	5200
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	CIGACGAGCA	TCACAAAAAT	<u>CGACGCICAA</u>	GICAGAGGIG	GUJAAACCUG	5400
	ACAGGACTAT	AAAGATACCA	GGCGTTTCCC	CCIGGAAGCT	CCICTICCI	5450
						0.200
	CICICCIGIT	COGACCCIGC	CGCTTACCGG	ATACCIGICC	GCCTTTCTCC	5500
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<u>AGCAGAGCGA</u>	GGIAIGIAGG	CGGIGCIACA	GAGITCITGA	AGIGGIGGCC	5750
TAACTACGGC	TACACTAGAA	GGACAGIATT	TGGTATCTGC	<u>GCTCTGCTGA</u>	5800
AGCCAGITAC	CTTCGGAAAA	AGAGITOGTA	GCICTIGATC	CGCCAAACAA	5850

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ACGCICAGIG	GAACGAAAAC	TCACGITAAG	GGATTTTGGT	CATGAGATTA	6000
<u>TCAAAAAGGA</u>	TCITCACCTA	GATCCTTTTA	TAAAAATTAA	GAAGITTTAA	6050
ATCAATCTAA	AGTATATATG	AGTAAACTIG	GICIGACAGT	TACCAATGCT	6100
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	ylGgrAgrAr				0200
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	TsiHnlGueL				
	AGCAATAAAC				6300
	eLueLueLyl	_	•	-	
GGICCIGCAA	CTTTATCCGC	CICCATCCAG	TCIATTAATT	GTTGCCGGGA	6350
<b>HpsAnlGueL</b>	syLelIgrAg	rAprTylGrh	TnsA	nsAylGorPu	
AGCTAGAGTA	AGTAGTTCGC	CAGTTAATAG	TTTGCGCAAC	GITGITGCCA	6400
eLueLue	LryTnsAalA	ueLryIn	sAalAsyCor	AnlGnlGorT	,
	CATCGTGGTG	<del>-</del>		<del>-</del>	6450
	yCgrAorPrh				0100
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			ryTalAalAl				
			GCGCCACATA			6750	
			AalAlaVryT				
			GGGGGAAAA			6800	
			rPalAehPla				
			AACCCACTCG			6850	
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	TGAGCGGATA	CATATTIGAA	TGTATTTAGA	AAAATAAACA	AATAGGGGTT	7050	
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	1CAGGGGG	DIEFFORM	TIGGCGGGIG '	TOPPETU (	CTTAACTATG	7300	
	CCCATCACA	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		* CC * ET * ET CC * C	~~~	50.50	
	COCATCAGA	GCAGATIGIA (	CIGAGAGIGC A	ACCATATGCG (	31G1GAAA1A	7350	
	CCCACACAM (	· · · · · · · · · · · · · · · · · · ·	* * * * * * * * * * * * * * * * * * *	MINO A CAN A MINI (	TOTAL 2 2 CO	5400	
	CCGCALAGAI	CCCIANDONG.	AAAATACCGC 2	ATCAGGAAAT.	IGTAAACGT.I.	7400	
	AATATTTTGT	መለለለመጥምም /	~1111/3	TYTTTIN N NITTYN - /		7450	
	711111111111	IAMATICOC (	GIIAAAIIII .	IGITAMICA (	<u>SCICATITIT</u>	7450	
	TAACCAATAG (	ממבררב (	י יייידייית אל אייב	መንያ እስተነገለ ነ	ላ አ አ ር አ አጠአ ር አ	7500	
	1112011110	CCCCFFFICO (	CAMMICCE.	I IAIAAICA A	WALTHUM I	7500	
	CCGAGATAGC (	، سنجانکھیاسک	GIICCAGITT (	<b>3CD</b>	ПДДУДШУШПУ	7550	
		CLICE WILLIAM	TITCE TITE	. خادگادیمی	CCACIALIA	7330	
	AAGAACGIGG A	ACTYCAACTT (	י מברצרצאמער	י יוייאוניאי)עעעע ג	אתראלליליליא	7600	
			A FUNCTARE	* * TOTTOT F	THUNCH	7000	

10	20	30	40	50		
1234567890	1234567890	1234567890	1234567890	1234567890		
TGGCCCACTA	CGTGAACCAT	CACCCTAATC	AAGITTTTTG	GGGTCGAGGT	7650	
GCCGTAAAGC	ACTAAATOGG	AACCCTAAAG	GGAGCCCCCGG	ATTTAGAGCT	7700	
TGACGGGGAA	AGCCGGCGAA	CGIGGCGAGA	AAGGAAGGGA	<u>AGAAAGCGAA</u>	7750	
AGGAGCGGGC	GCTAGGGGGC	TGGCAAGIGT	AGCGGTCACG	CIGOGOGIAA	7800	
CCACCACACC	CGCCGCCTT	AATGOGCOGC	TACAGGGGGC	GICGCCCCAT	7850	
TOGOCATTCA	GGCTACGCAA	CIGITGGGAA	GGGCGATCGG	TGCGGGCCTC	7900	
TTCCCTATTA	CCCCACCTCC	CIGCAGGGGG	GGGGGGGGG	CCCT	7944	

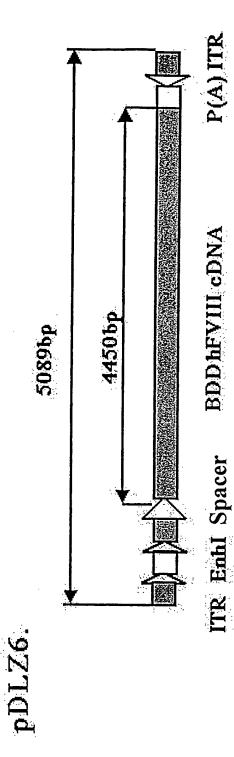
# FIGURE 2

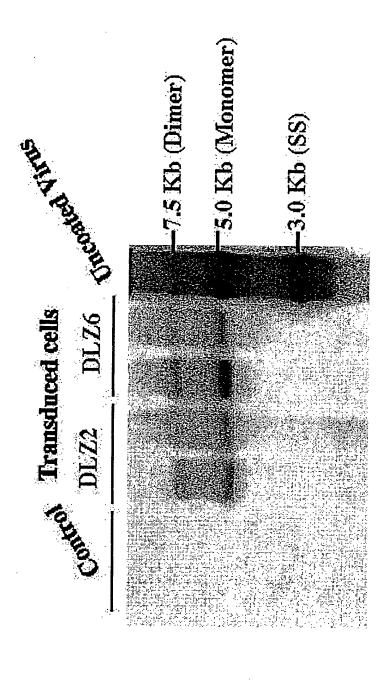
4965bp pDLZ2.

P(A) ITR

BDDhFVIII cDNA

ITR Spacer





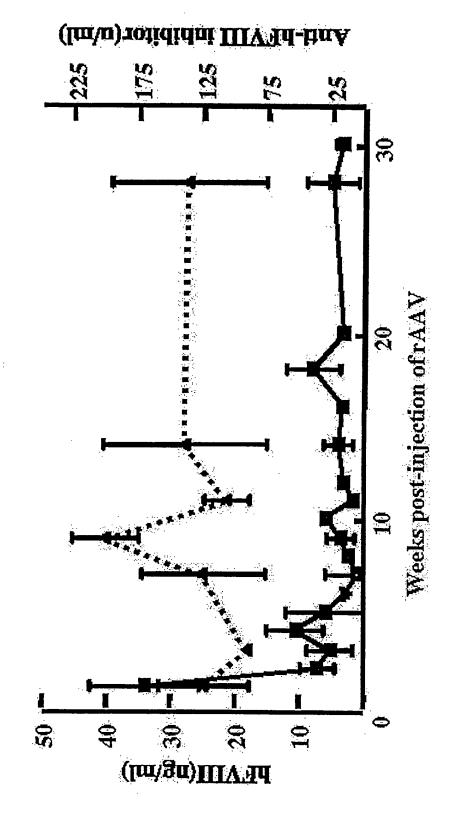
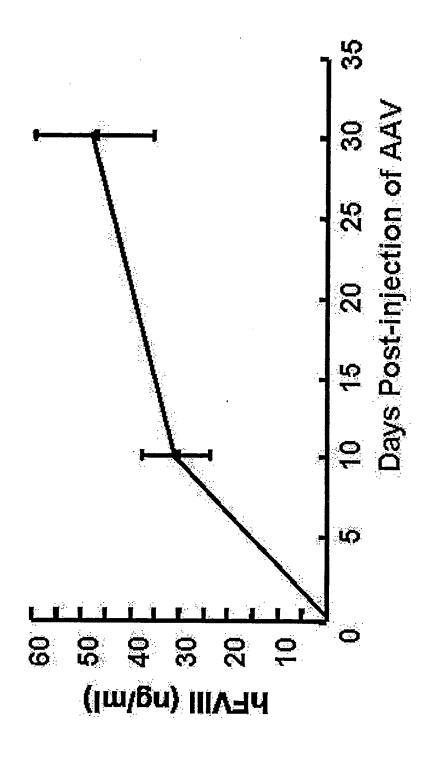


FIGURE 4-B



The state of the s 3' primer 5 primer FIGURE 5-A FIGURE 5-B

FIGURE 5-C

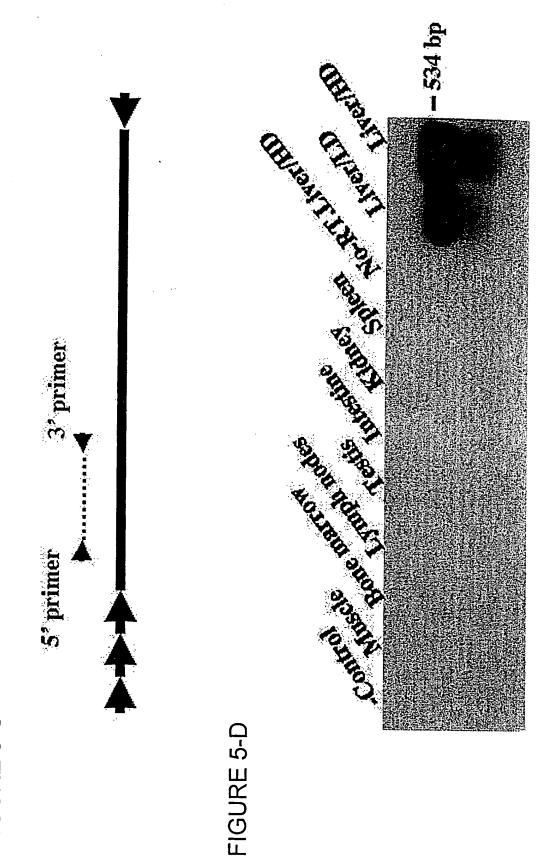
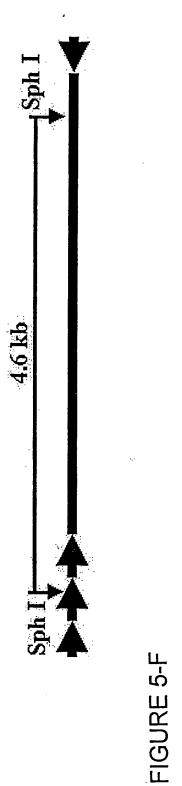
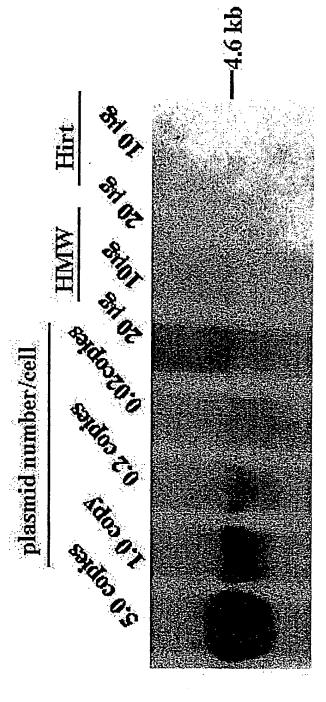


FIGURE 5-E





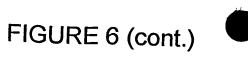
#### FIGURE 6

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100CACICC	CICICIGUSC	. Gertaertae	TCACIGAGGC	OGGGGGACCA	50
AAGGIOGOOO	GACGCCCGGG	CITTGCCCCGG	GOGGCCICAG	TGAGCGAGCG	100
AGCGCGCAGA	GAGGGAGIGG	CCAACICCAT	'CACTAGGGGT	TCCTCAGATC	150
TCTTTCTAAG	TAAACAGTAC	ATGAACCTTT	ACCCCGTTGC	TOGGCAACGG	200
CCIGGICIGI	GCCAAGIGIT	TGCTGACGCA	ACCCCACTG	GCIGGGGCTT	250
GGCCATAGGC	CATCAGCGCA	TGCGGATCTC	AGIGIGGITT	TGCAAGAGGA	300
AGCAAAAAGC	CICICCACCC	AGGCCTGGAA	TGTTTCCACC	CAATGTCGAG	350
CAGIGIGGIT	TTGCAAGAGG	AAGCAAAAAG	CCTCTCCACC	CAGGCCIGGA	400
CICGACCICG	AGAGIACTIC	TAGAAATACG	AGCCATGCAA MetGln	GTAGAGCTCT ValGluLeuT	450
ACACCTICCTIC	כוויווריווביוובר	CHUHULLACATU	TCAGCCITAG		500
			heSerLeuSe		500
AAATACTACA	חללבונלים ליה	GCV V CITCHEC	TGGGACTATA	TATATITATY	ררס
			TrpAspTyrM		550
CARACACACA	CCCTALTACA	CCATACAAC	CITITCTTCC	ACCOMPOSING	C00
			rPheSerSer		600
CATCHALICAC	ACTUACUACE	TOTAL TOTAL	ACAGAAAGAC	argvarriog	CEO
			yrArgLysTh		650
CACTITIACAC	מונים איניים	CyyCymiccc	AAGCCCAGGC	TAGTHIGAGT	700
GluPheThrA	SDASDI ALPh	elantier	LysProArgP	CACCGIGGAI.	700
GGGTTGTTGT	CTICTE ACT	TOTAL CATA	GGTTTATGAC	TOSTOTTÉME	750
			uValTyrAsp		750
			TCAGCCITCA		000
			alSerLeuHi		800
			GAGTATGAGG		050
			GluTyrGluA :		850
			TCCTGGTGAA		000
rGlnIveGlu	Tagana	augauga 111	eProGlyGlu	CONTINUTY OF THE	900
Alltitutta	CCICALCY V V	ÇΣCΣΣΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩΩ	CAATGGCCTC (	CYUCAYAA	050
yrValTrpGl	Mallellave	GJngenGjan Grannovci	momotal are	ryandrana rganceacta	950
7 - + ATTTENT	variations of	OTOWNINGTAL.	rancontabe :	rwahtrotto	

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1234567890	1234567890	1234567890	1234567890	1234567890	
TGICICACCT	ACICATATIT	TTCACACGIG	GACCIGGIGA	AAGACCTGAA	1000
CysLeuThrT	yrSerTyrPh	eSerHisVal	AspLeuValL	ysAspLeuAs	
TICAGGCCIC	ATTIGGAGCCC	TOCTOGITTG	CAAAGAAGGG	AGICIGGCCA	1050
nSerGlyLeu	IleGlyAlaL	euLeuValCy	sLysGluGly	SerLeuAlaL	
AAGAAAGGAC A	ACAGACCTTG	CAGGAATTIG	TOCTACTITT	TECTETATIT	1100
ysGluArgTh :	rGlnThrLeu	GlnGluPheV	alleuLeuPh	eAlaValPhe	
GATGAAGGGA 2	AAAGTTGGCA	CICAGAAACA	AATGCGICIT	TGACACAGGC	1150
AspGluGlyL	ysSerTrpHi	sSerGluThr	AsnAlaSerL	euThrGlnAl	
TGAGGCCCAG (	CATGAGCTGC	ACACCATCAA	TGGCTATGTA	AACAGGTCTC	1200
aGluAlaGln 1	HisGluLeuH	isThrIleAs	nGlyTyrVal	AsnArgSerL	
TGCCAGGICT '	TACIGIGIGI	CACAAGAGAT	CAGICTATIG	CCATGIGATT	1250
euProGlyLe 1	uThrValCys	HisLysArgS	erValTyrTr	pHisValIle	
GGAATGGGCA (	CCACCCCCGA	AGIGCACICA	ATTTTTCTCG	AAGGTCACAC	1300
GlyMetGlyT l	hrThrProGl	uValHisSer	IlePheLeuG	luGlyHisTh	
ATTICTIGIG A	AGGAACCACC	GCCAGGCCTC	CTTGGAGATC	TCACCAATTA	1350
rPheLeuVal 2	ArgAsnHisA	rgGlnAlaSe	rLeuGluIle	SerProIleT	
CITICCITAC '	TGCTCAGACA	TTCCTGATGG	ACCTIGGCCA	GITICIACIG	1400
hrPheLeuTh :	rAlaGlnThr	PheLeuMetA	spLeuGlyGl	nPheLeuLeu	
TTTTGICATA	TCCCTTCCCA	TCAACATGAT	GGTATGGAAG	CTTATGTCAA	1450
PheCysHisI	leProSerHi	<b>s</b> GlnHisAsp	GlyMetGluA	laTyrValLy	
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sValAspSer(	CysProGluG	luProGlnLe	uArgMetLys	AsnAsnGluA	
ATAAAGATTA C	IGAIGAIGGT	CTTTATGATT	CTGACATGGA	CGTAGTTAGC	1550
splysAspTy 1	rAspAspGly	LeuTyrAspS	erAspMetAs	pValValSer	
TTTGATGACG A	ACAGCICTIC	TCCCTTTATC	CAAATCCGCT	CAGTTGCCAA	1600
PheAspAspA s	spSerSerSe	rProPheIle	GlnIleArgS	erValAlaLy	
GAAGCATCCT A	AAAACTIGGG	TCCACTATAT	TCCTCCTCAG	GAGGAGGACT	1650
sLysHisPro I	LysThrTrpV	alHisTyrIl	eAlaAlaGlu	GluGluAspT	
GGGACTATGC T	ICCCICAGGC	CCCACCCCA	ATGATAGAAG	TCATAAAAAT	1700
rpAspTyrAl a	aProSerGly	ProThrProA	snAspArgSe	rHisLysAsn	
CIGIATTIGA A	ACAATGGTCC	TCAGCGGATT	GGTAAGAAGT	ACAAAAAAGT	1750
LeuTyrLeuA s	snAsnGlyPr	oGlnArgIle	GlyLysLysT	yrLysLysVa	
CCGATTIGIG (	CATACACAG	ATGAGACATT	TAAGACICGT	GAAGCTATTC	1800
lArgPheVal A	AlaTyrThrA	spGluThrPh	eLysThrArg	GluAlaIleG	
AGTATGAATC A					1850
lnTyrGluSe i	rGlyIleLeu	GlyProLeuL	euTyrGlyGl	uValGlyAsp	
ACACTGCTGA T	AATTTATATT	GAATCAAGCC	AGCCGGCCAT	ATAACATCTA	1900
ThrLeuLeuI ]	leIlePheLy	sAsnGlnAla	SerArgProT	yrAsnIleTy	

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				GGACCAACTA		2050
				GlyProThrL		
				CATTAATCIG		2100
				eIleAsnLeu		
				TCIGCTACAA		2150
				leCysTyrLy		
				AAGAGAAATG		2200
				LysArgAsnV		
				CCTCACAGAG		2250
				rLeuThrGlu		
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				roHisAspPr		
				TAIGITTTIG		2350
				TyrValPheA		
				CIGGIACATT		2400
				rTrpTyrIle		
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				LeuPheProP		
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				GAGGACACAT .		2650
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				llleLysPro		
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				luLysGlnLe :		
				GAAAATCAGG (		2800
				GluAsnGlnG :		
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				AATTTACTGA	2950
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GACICITIGGG	GCCATATATA	AGAGCAGAAG	TTGAAGACAA	TATCGIGGIA	3050
lyLeuLeuGl	yProTyrIle	ArgAlaGluV	alGluAspAs	nIleValVal	
ACTITICAAAA	ACCAGGCCTC	TOGTOCCTAC	TCCTTCTATT	CTAGICTTAT	3100
ThrPheLysA	snGlnAlaSe	rArgProTyr	SerPheTyrS	erSerLeuIl	
TICITATGAC	GAAGATGAGG	GACAAGGAGC	AGAACCTAGA	AGAAAGTTTG	3150
eSerTyrAsp	GluAspGluG	lyGlnGlyAl	aGluProArg	ArgLysPheV	
TCAACCCTAA	TGAAACCAAA	ATTTACTTTT	GGAAAGIGCA	<b>GCATCATATG</b>	3200
alAsnProAs	nGluThrLys	IleTyrPheT	rpLysValGl	nHisHisMet	
GCACCCACTA	AAGATGAGTT	TGACTGCAAA	GCCIGGGCTT	ATTTTTCTGA	3250
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pValAspLeu	GluLysAspV	alHisSerGl	yLeuIleGly	ProLeuLeuI	
TCTGCCGCAG	TAACACACTG	AACCCTGCTC	ATGGGAGACA	AGTGACAGTG	3350
leCysArgSe	rAsnThrLeu	AsnProAlaH	isGlyArgGl	nValThrVal	
CAGGAGITIG	CCCTGGTTTT	CACTATATTC	GATGAGACTA	AGAGCIGGIA	3400
GlnGluPheA	laLeuValPh	eThrIlePhe	AspGluThrL	ysSerTrpTy	
CTTCACTGAA	AACCTGGAAA	GGAACTGTAG	AGCICCCIGC	AATGTCCAGA	3450
rPheThrGlu	AsnLeuGluA	rgAsnCysAr	gAlaProCys	AsnValGlnL	
AGGAGGACCC	TACICIAAAA	GAAAACTTCC	GCTTCCATGC	AATCAACGGC	3500
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ATCCCAAGTT					3750
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AAGCCGGGAT					3800
lnAlaGlyMe	tSerThrLeu	PheL <i>e</i> uValT	yrSerLysLy :	sCysGlnThr	



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			_	rGlyThrLeu	
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AsnAsnProL				_	
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alLysGluPh				_	
TTTCTTCAGA	ATGGCAAAGT	CAAGGICITC	CAGGGAAACC	GGGACTCCTC	4600
PheL <i>e</i> uGlnA		_	<del>-</del>		
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rThrProVal .					
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rgLeuHisPr	_			_	
CIGGGCIGCG .			CCCCCCCTC	TCCCCCCTC	4750
LeuGlyCysA	spIhrGlnGl :	nProAla			

1224567900	20		40	50	
	1234567890 CTCCCTGCCC				4000
iciaacia	Citterigue	IGICCCCCC	GCTCCCATC	AAGCTTATOG	4800
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CICGGICGIT	CGGCTGCGGC	GAGCGGTATC	AGCTCACTCA	<u>AACCCCCTTAA</u>	5200
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AAAGGCCAGC	AAAAGGCCAG	GAACOGTAAA	AAGGCCGCGT	TCCICCCTT	5300
TTTCCATAGG	<u> </u>	CIGAOGAGCA	TCACAAAAAT	<u>CGACCCICAA</u>	5350
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CCIGGAAGCT	CCCTCGTCCG	CICICCIGIT	COGACCCICC	CGCTTACCGG	5450
ATACCIGICC	GCTTTCTCC (	CITOGGGAAG	CGIGGCCTT (	TCICAATGCT	5500
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CTATCGICTT	GAGICCAACC (	COGTAAGACA	CGACTTATCG (	CCACTGGCAG	5650
CAGCCACTGG	TAACAGGATT	AGCAGAGCGA	GGTATGTAGG (	CGGTGCTACA	5700

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					GGACAGTATT	5750
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	GATCITTICT	ACGGGGTCTG	ACGCTCAGTG	GAACGAAAAC	TCACGITAAG	5950
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	TAAAAATTAA	GAAGTTTTAA	ATCAATCTAA	AGTATATATG	AGTAAACTIG	6050
	GICIGACAGT	TACCAATGCT ylGelIreS		GGCACCTATC rPlaVgr		6100
		TTCATCCATA sAteMprTue	GITGCCTGAC	TCCCCGICGI	GTAGATAACT	6150
	ACGATACGGG	AGGGCTTACC orPreSlaVt	ATCIGGCCCC	AGTGCTGCAA	TGATACCGCG	6200
	AGACCCACGC	TCACCGGCIC SlaVorPulG	CAGATTTATC	AGCAATAAAC	CAGCCAGCCG	6250
	GAAGGGCCGA ehPorPgrAa	GCGCAGAAGT lAsyCehPsi	GGTCCTGCAA	CTTTATCCGC	CICCATCCAG	6300
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	CAGCACTGCA ueLlaValAr	TAATICICIT .	ACIGICATGC	CATCCGTAAG.	AIGCITTICT	6600
	GIGACICGIG GreSnlGsiH	AGIACICAAC	CAAGICATIC	TGAGAATAGT (	GTATGOGGOG	6650



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	GCAGAACTTT	AAAAGIGCIC	ATCATTGGAA	AACGITCITC	GGGGGGAAAA	6750	
	syCehPsyLu	eLueLalA	nlGehP	laVnsAsyLo	rPalAehPla		
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	VgrAueLreS	grAlaValAr	hTreSelIpr	ThsAreSrhT	laVprTulGs		
	TGCACCCAAC	TGATCTTCAG	CATCTTTTAC	TTTCACCAGC	GTTTCTGGGT	6850	
	iHlaVprTre	SellsyLueL	teMsyLs	yLprTgr	AsyLnlGrhT		
	GAGCAAAAAC	AGGAAGGCAA	AATGCCGCAA	AAAAGGGAAT	AAGGGGGACA	6900	
	ueLueLehPu	eLehPalAeh	PsiHgrAueL	ehPorPehPu	eLorPreSla		
	CGGAAAIGIT	GAATACICAT	ACICITCCIT	TTTCAATATT	ATTGAAGCAT	6950	
g ang	VreSelInsA	ehPlaVl					
dad dan din dad dah mengani dan	TTATCAGGGT	TATIGICICA	TGAGCGGATA	CATATTIGAA	TGTATTTAGA	7000	
M							
Į	AAAATAAACA	AATAGGGGTT	CCGCGCACAT	TTCCCCGAAA	AGIGCCACCT	7050	
IJ	GACGICIAAG	AAACCATTAT	TATCATGACA	TTAACCTATA	AAAATAGGCG	7100	
T							
E Li	TATCACGAGG	CCCTTTCGIC	TOGOGOGITT	CGGIGAIGAC	GGIGAAAAACC	7150	
ļ±	TCTGACACAT	GCAGCTCCCG	GAGACGGICA	CAGCIIGICI	GTAAGCGGAT	7200	
	GCCGGGAGCA	GACAAGCCCG	TCAGGGGGGG	TCAGCGGGTG	TIGGCGGGIG	7250	
	'ICGGGGCIGG	CTTAACTATG	CGGCATCAGA	GCAGATIGIA	CIGAGAGIGC	7300	
	2007						
	ACCATATICCG	GIGIGAAATA	CCGCACAGAT (	GOGIAAGGAG	AAAATACCGC	7350	
	1ma1 aa1 1 -						
	ATCAGGAAAT	TGTAAACGTT	<u>AATATTTTGT                              </u>	TAAAATTCGC (	GITAAATTTT	7400	
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	TGTTAAATCA	GCICATITITI	TAACCAATAG (	GCCGAAATCG (	<u>GCAAAAIICCC</u>	7450	
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	TIAIAAAICA	AAAGAATAGA (	CCGAGATAGG (	GI.I. (	GI'ICCAGI'I'I'	7500	
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	GGAACAAGAG '	ICACIATIA	TELLELIHARIKAN	HCICAHUGI, (<u>ALLELENAMA</u>	7550	
	<u>አ</u> አአአረረረ	አጠባአረγγγγγ 4	TYYYYYXATIX A	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	``````````````````````````````````````	7600	
	AAAACCGICT .	ATCHUUCH.	IGGCCACIA (TATAMICAT. (ACCTAATC	7600	





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AAGITITITIG	GGGTCGAGGT	GCCGTAAAGC	ACTAAATOGG	AACCCTAAAG	7650	
•						
GGAGCCCCCG	ATTTAGAGCT	TGACGGGGAA	AGCCGGCGAA	CGTGGCGAGA	7700	
	•					
AAGGAAGGGA	AGAAAGCGAA	AGGAGCGGGC	GCTAGGGCGC	TGGCAAGIGT	7750	
AGCGGICACG	CIGCGCGIAA	CCACCACACC	CGCCGCCTT	AATGCGCCCC	7800	
TACAGGGCGC	GICGCGCCAT	TOGOCATICA	GGCTACGCAA	CIGITGGGAA	7850	
GGGCGATCGG	TGCGGGCCTC	TICCCIATIA	OGCCAGCIGG	CIGCAGGGG	7900	
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GGGGGGGGG	<u>GGGT</u>				7914	